

Fehom

Commercial Dehumidifier

Please read the manual carefully
before using the unit

PD890EB

USER MANUAL



FOR CUSTOMERS

Thank you for purchasing our dehumidifier.

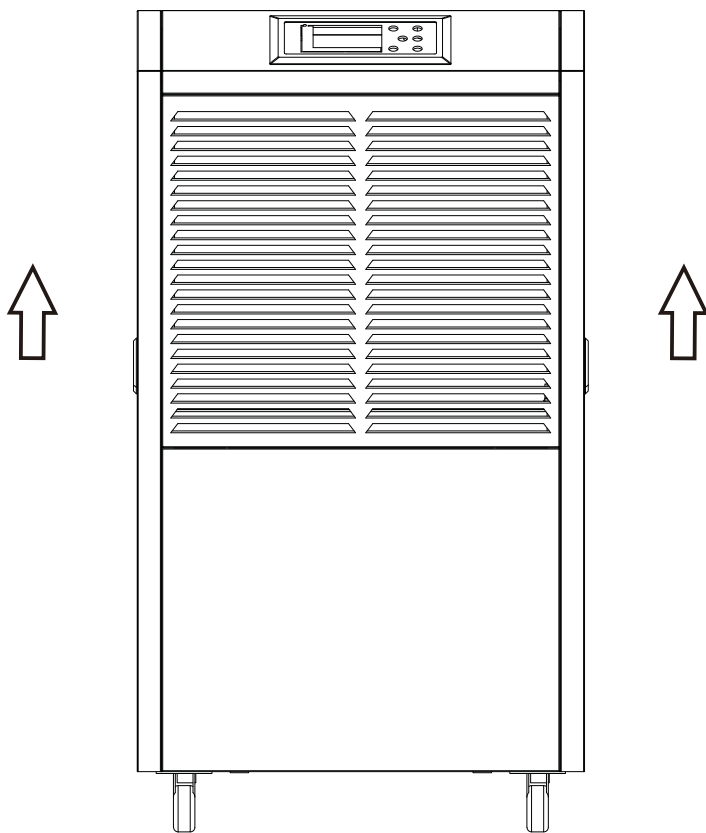
Fehom wishes that our products and services can bring convenience to your work and life. We highly recommend that you keep the manual for reference if you encounter unexpected events using the unit. Please read the manual carefully to ensure the proper use of the dehumidifier. Our company's dehumidifiers are widely used in home or work area. The dehumidifier from **Fehom** operates quickly and efficiently to reduce room's humidity and bring you a healthy and comfortable life.

To Access Customer Support Faster

If there is any problem of the product, please contact Fehom Customer Service at support@feh.com with your purchase Order ID to help us address the problem faster.

BEFORE FIRST USE:

To prevent any internal damage, it is very important to keep refrigeration units (like this one) upright throughout their journey. Please leave it standing upright and outside the box for **24 HOURS** before plugging it in.



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Statement

The graphics and functions provided in this manual may not be the same as the actual product. Please always refer to the actual product. The model of the machine on the manual is for reference only. Please operate the machine based on the actual product. The right to interpret the relevant terms belongs to the company.

PRECAUTIONS FOR USE

Safety notes:

Before installation, operation and maintenance of this machine, please read the safety precautions carefully.

Remove the packing materials of the device, keep far away from kids or baby to avoid the risk of suffocation.

Before plug in the machine, ensure the voltage is within the range of label.

This dehumidifier is only used for the specified applications.

The manufacturer shall not take any responsibility for the damage caused by the improper application.

This device is safe in application, but careful operation is required as operating other electric appliances.

Please place the machine vertically for two hours prior to power on the machine in the 1st time application.

Cautions!

- Indoor application only.
- Adopt 110-120V-60Hz grounding socket.
- Observe the local regulations for the installation and applications.
- Learn more or consult professional for any question on the installation.
- Draw out the plug when do not use. Never remove the plug by pulling the wire.
- Never operate the part by wet hand.
- Keep away from the touch of the kids.
- Do not soak the parts into water or spray water directly on the part during cleaning.
- When using dehumidifier, other objects surrounding the machine at least need to keep a distance of 39.4inches(1m).
- Draw the plug out before cleaning the device or any part of the machine.
- Draw out the plug when changing the filter trap.
- Do not use the extension cable to connect with power; ask professional for the installation when there are no proper socket available.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.
- Use on Single Outlet Circuit Only.

To avoid the occurrence of danger, ask manufacturer, agents or qualified staff for the replacement of damaged power wire.



1. Product Introduction

Dehumidifier is used for reducing the air moisture of its installation space to a proper level, so as to fit people in the daily life and material storage.

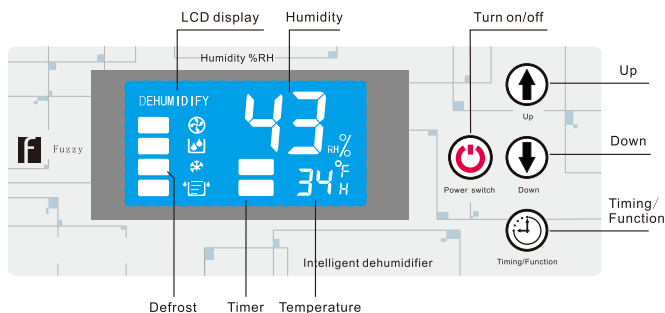
Beautiful in shape, compact in size, convenient in operation, this dehumidifier is widely used in the dehumidification of many sites with high moisture such as scientific researching, medical & health care, commodity storage, underground engineering, so as to prevent the loss caused by moisture, rust, decomposition of apparatus, devices, telecommunications devices, medicines, files etc.

As considering the setting optimum humidity of the climate and environment change, physiological health condition of human, protection condition of indoor furniture and other Items varies between 45% to 65%, it is suggested to set the humidity within this range.

2. Product features

- (1) Beautiful appearance, high grade, compact and reasonable structure, firm
- (2) Computer control, easy to operate, special timing function
- (3) General low temperature application, high efficiency automatic haze system
- (4) Unique humidity 1% adjustable setting function
- (5) Hose continuous drainage function
- (6) Special environment temperature display, temperature display and automatic fault diagnosis function
- (7) Some models are equipped with universal wheels at the bottom, which can move freely
- (8) Adopt international famous brand compressor, international famous brand humidity sensor

OPERATION INSTRUCTIONS



1.Button Description

1) Power Button: In the status of power off, press this button to turn on the device and vice versa (In the status of power on, the LED screen will light up and vice versa).

Note: dark screen does not mean the power is disconnected.

2) Up/Down key: set Increasing/decreasing for humidity or function.

3) Timing key: long press to enter timing setting, short press to confirm parameter setting.

2.Humidity Setting

In the status of power on, press UP/DOWN key to set the humidity value, ranges between 10 and 98. Press -Timing" key to exit or press stop Push button for 10 seconds and exit automatically.

3.Setting of timing power off

In the status of power on, long press two seconds to enter the setting of timing power off, press UP/DOWN key to set time, and then press "Timing" key to exit the timing function, when the timing is effective, to display the time of timing power off, the unit is hour. When there is no timing setting, display the environment temperature. When the timing setting is complete, press "Timing" key to check the environment temperature.

4.Operation description

- 1.Power on: when the air blower is start, delay for several seconds and the compressor will turn on.
- 2.Power off: the compressor immediately stop,the air blower will stop after delaying for several seconds.
- 3.In the case of continuous power, the compressor stopped running for 3 minutes, can be started again

5.Status description

In the status of delay power on, character "Operation" will flash;

When the air blower operates, the icon of "air blower" will light up and vice versa;

When the compressor operates, i.e. in the state of dehumidification, the icon of drop will light up and vice versa.

When the present humidity reach the setting value and turn off the device (humidity control status), the character of "Humidity Control"will flash.



6. Defrosting function

When the device operates at the lower environmental temperature, the system will judge if there are frost exist automatically and make the defrosting operation accordingly if any.

Defrosting operation: air blower does not stop but compressor stop.

Defrosting end: airblower will proceed operation, compressor will start.

Defrosting display: in the defrosting process, the defrosting character and icon will flash, icon of air blower will light up while other characters and icons will not light up.

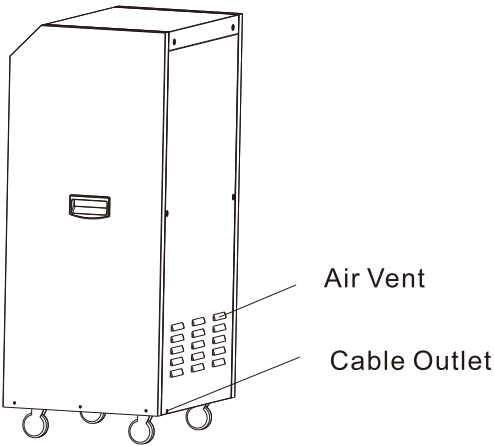
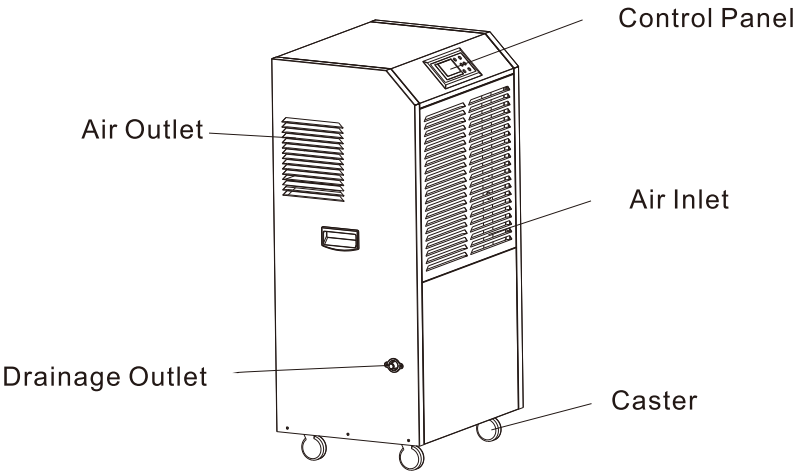
7. Temperature protection function

When the ambient temperature is higher than the high temperature setting value (default 113°F), the system enters the high temperature protection, indicating "HH", the compressor stops.

When the ambient temperature is lower than the low temperature setting value (default 39.2°F), the system will enter the low temperature protection, indicating "LL" and the machine will stop.



PARTS
DESCRIPTIONS



Note: This picture shows the dehumidifier Outline Drawing.
Other models shape and size are a little different, please prevail In kind.



SPECIFICATION

MODEL	PD890EB
POWER SOURCE	110-120V~60Hz
RATED POWER	1400W
RATED CURRENT	12A
MOISTURE REMOVAL CAPACITY(65°F,60%RH)	72 Pints/Day
MOISTURE REMOVAL(80 °F,60%RH)	110 Pints/Day
MOISTURE REMOVAL(86 °F,80%RH)	190 Pints/Day
MOISTURE REMOVAL(95 °F,90%RH)	232 Pints/Day
INPUT POWER(80°F, 60%RH)	1000W
INPUT CURRENT(80°F, 60%RH)	9.2A
INPUT POWER(65°F, 60%RH)	785W
INPUT CURRENT(65°F, 60%RH)	7.5A
MOTOR FLA	1.3A
MOTOR COMPRESSOR	RLA:10.2A LRA:48.06A
REFRIGERANT	R410A /580g(20.5ozs)
MAXLMUM ALLOWABLE PRESSURE	20MPa
MAXLMUM OPERATING PRESSURE HIGH	4.0Mpa
MAXLMUM OPERATING PRESSURE LOW	1.7Mpa

Working temperature range from 41°F (5°C) or higher 95°F (35°C). In the event of the room temperature exceed this range; this part will not work properly.

The parts parameters of above are subject to modification without further notice.

WARNING:

This product can expose you to chemicals including Styrene and its compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to: www.P65Warnings.ca.gov

MALFUNCTION CODE

Malfunction Codes	Description
E0	Malfunction of defrosting temperature sensor 2
E1	Malfunction of humidity sensor
E2	Malfunction of defrosting temperature sensor 1
E3	Malfunction of phase sequence (reverse phase or lack phase)
E4	Malfunction of environmental temperature sensor
E5	Malfunction of system high pressure
E6	Malfunction of system low pressure
E7	Alarm for full water
E8	Malfunction of overloading current of compressor
E9	Malfunction of overloading current of air blower
ER(EA)	Defrost temperature sensor 3 failure
Eb (Eb)	Defrost temperature sensor 4 failure
Ec (Ec)	Display information transmission abnormal

Note:

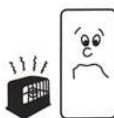
- 1.If display E0 E1 E2 E3 E4 ER or Eb fault, compressors, fans were still working, only alarm and display fault code, turn off the electricity power then turn on still can start (a few seconds for the alarm sound, press any button to reset the alarm sounds).
- 2.E3 E5 E6 E8 E9 alarms, troubleshooting, need power off, then power on, the alarm will relieve.
- 3.When E2 fails, the operation of the machine is not controlled by the operation panel.
- 3.If the malfunction is still present, please don't hesitate to contact Fehom Customer Service email: support@fehom.com for help.

SAFETY OPERATION AND PROTECTION

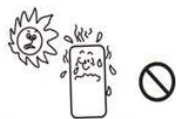
Do not use overall relay, extension cable or adaptor to connect this device. Wrong application could cause fire, electric shock or heating.



Do not place this device close to furnace, heater and devices that could produce heat. Wrong application could cause the resin be melt and even cause fire.



Do not use the machine in the area that is subject to direct sunlight or wind or rain. Indoor application only.



Furn off the machine and remove the power wire when problem happens[e.g. the machine emits the smell of burning]. Wrong application could result in fire. Electric shock and new failure.



Do not use the machine in the area that could be affected by chemical. The medicine or solvent permeated into the air could cause bad influence to the device and cause leakage of water in the tank.



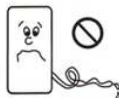
Remove the power cable when do not use the machine for a long time.



Turn off the machine and remove the power cable firstly when cleaning the machine. Improper operation cause personal injury.



Place the drain hose well when use continuously draining so as to pass the water freely In the water event of cold temperature around the pipe could freeze, do not drain water continuously.



SAFETY OPERATION AND PROTECTION

Do not repair, disassemble or modify this machine through do-it-yourself.

Wrong application could cause fire or accident of electric shock.



Place this machine in stable site.

In the event of turn the device upside down, the water could pour out and damage the surrounding items, and cause electric leakage and fire or electric shock.



The method to lengthen the application life of air purification filtering mesh
Place the filtering mesh into plastic bag when do not use the device for a long time, seal and store.



Do not use this machine in the area that is adjacent to water.

As electric leakage could happen when this machine encounters water and will cause fire or electric shock.



Apply proper power switch.
Wrong application could cause fire or electric shock.



Do not damage or alter power cable. Please do not place heavy item on the power cable, heat or pull the power cable with force, or it could damage the power cable and cause fire or electric shock.



Connect the power cable with the switch securely.
In the event of looseness of power cable, there are could be danger of electric shock.



Do not draw out power cable to stop the operation of dehumidifier.
Wrong application could cause fire or electric shock.



Before cleaning and maintenance, draw out the power cable of the cleaning or at least one time per month or before storage.

Do not use detergent, steel wire ball, chemical treated dust removing cloth, gasoline, benzene, thinner or other solvents for the cleaning as these items could damage the machine body.

Cleaning filter trap

This device is equipped with a filter trap that can be washed, by which this machine can isolate large part of the contaminants transmitted through air, such as dust, smoke, animal fur, mold spore and pollen, reduce the substances that could cause sensitization.

It is suggested to check the filtering mesh regularly, make the cleaning or at least one time per month or before storage.

- Get out the filter trap
- Remove the contaminant in the filter trap by dust cleaner.
- If the filter trap is extreme dirty, use the warm water and soft cleaner for the cleaning, air dry the part thoroughly. Do not expose the part to direct sunlight or use other heating device for baking, as this could deform the filter trap body and its frame.
- Equip the filter trap in the device after cleaning. This dehumidifier will drain water continuously. Please follow the setting of manual for the continual draining.

This dehumidifier will drain water continuously. Please follow the setting of manual for the continual draining.

1. The device is attached with one drainpipe; see the drainpipe in the diagram.
2. Ensure no bending in the drainpipe for smooth water flow.

User shall never repair or disassemble this parts through do-it-yourself, improper repairing could endanger the user's body.

MAIFUNCTION AND TROUBLESHOOTING

Malfunction	Cause	Solution
The dehumidifier do not operate	1. Power failure 2. Switch is not connected 3. Plug is not inserted into socket 4. Fuse melted	1. Supply power again 2. Re-connect to power 3. Insert plug into socket 4. Replace fuse
The dehumidification effect is not significant	1. Scaling in the air filtering mesh 2. Block in the air intake of dehumidifier 3. Door and window is open 4. Refrigerant leaks	1. Clean filtering mesh 2. Remove blocks 3. Close door and window 4. Contact agent or manufacturer for repairing
Water leakage	1. Machine tilt 2. Water outlet pipe is blocked	1. Adjust machine in a level 2. Disassemble the panel and remove the dirt inside the Pipe
Abnormal noise	1. Machine placing is not stable 2. If the filtering mesh is blocked	1. Place the machine stably 2. Cleaning the filter trap

1. When above malfunction cannot be eliminated and require repairing, please contact supplier or agent, please do not disassemble the machine by do-it-yourself.
2. The circulating sound of refrigeration could be heard except operation or stop of the machine, this is normal but not malfunction.
3. Air outlet exhaust hot air is normal.



WARRANTY AND CONTACT US

Warranty

Fehom offers a 12-month warranty to all of our products, newly purchased and unused, from Fehom or through an authorized reseller, together with the original proof of purchase when a defect occurred, wholly or substantially, or as a result of faulty manufacturing, parts or workmanship during the Warranty Period. The warranty does not apply if damage is caused by other factors, including without limitation of:

- (a) Normal wear and tear;
- (b) Abuse, mishandling, accident or failure to follow operating instructions;
- (c) Exposure to liquid or infiltration of foreign particles;
- (d) Servicing or modification of the product other than by Fehom.

These are our general terms for the warranty service, but we always urge our customers to reach out to us with any issue, regardless of warranty terms. If you experience an issue with a Fehom product, please contact us at support@fehom.com we will do our best to resolve it for you.

Extend Your Warranty by 1 Year

Register your product at **www.fehom.com** to extend your 1-year warranty by an additional year.

*Please filled out all required fields and include your order ID, Date of Purchased if applicable.

Customer Support

If you have any questions or concerns about your product, please feel free to contact our expert support team. Fehom customer service is here to help!

Fehom Office

13211, Spring Street Baldwin Park, CA, US

Email: support@fehom.com

Live Chat: www.fehom.com

Support Hours

24 Hours available

*Please have your order number before contacting customer support.



Fehom

For FAQs and more information please visit:
www.fehom.com



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(Scan the QR Code for Live Chat)

We would love to see our product being used and how it makes your day!! Your support means the world, Please tag us if you share a snap on your social media.

www.fehom.com

